Models 8000 / 8100 / 8200

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DEFINITION OF LIGHT COMMERCIAL:
1. Door Heights less than or equal to 8’0” (≤ 8’0”) are considered Residential Applications.
2. Door Heights greater than 8’0” (> 8’0”) are considered Light Commercial Applications.

IMPORTANT NOTICES!
To avoid possible injury, read and fully understand the enclosed instructions carefully before installing and operating the garage door. Pay close attention to all warnings and notes. After installation is complete, fasten this manual near garage door for easy reference.

PLEASE DO NOT RETURN THIS PRODUCT TO THE STORE
If you need assistance, please call 1-866-569-3799 (press Option 1) and follow the prompts to contact a customer service representative. They will be happy to handle any questions that you may have.

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Part Number 356243 REV6_03/05/2018
**Important Safety Instructions**

**DEFINITION OF KEY WORDS USED IN THIS MANUAL:**

**WARNING**

Indicates a potentially hazardous situation which, if not avoided, could result in severe or fatal injury.

**CAUTION**

Property damage or injury can result from failure to follow instructions.

**IMPORTANT:**

Required step for safe and proper door operation.

**NOTE:**

Information assuring proper installation of the door.

**READ THESE INSTRUCTIONS CAREFULLY BEFORE ATTEMPTING INSTALLATION.**

If in question about any of the procedures, do not perform the work. Instead, have a trained door systems technician do the installation or repairs.

1. Read and follow all installation instructions.
2. Wear protective gloves during installation to avoid possible cuts from sharp metal edges.
3. It is always recommended to wear eye protection when using tools, otherwise eye injury could result.
4. Avoid installing your new door on windy days. Door could fall during the installation causing severe or fatal injury.
5. Doors 12’-0” wide and over should be installed by two persons, to avoid possible injury.
6. Operate door only when it is properly adjusted and free from obstructions.
7. If a door becomes hard to operate, inoperative or is damaged, immediately have necessary adjustments and/or repairs made by a trained door system technician using proper tools and instructions.
8. Do not stand or walk under a moving door, or permit anybody to stand or walk under an electrically operated door.
9. Do not place fingers or hands into open section joints when closing a door. Use lift handles/gripping points when operating door manually.
10. Do not permit children to operate garage door or door controls. Severe or fatal injury could result should the child become entrapped between the door and the floor.
11. Due to constant extreme spring tension, do not attempt any adjustment, repair or alteration to any part of the door, especially to springs, spring brackets, bottom corner brackets, fasteners, counterbalance lift cables or supports. To avoid possible severe or fatal injury, have any such work performed by a trained door systems technician using proper tools and instructions.
12. Do not permanently attach weatherstrips to the header and jambs at this time.
13. Top section of door may need to be reinforced when attaching an electric opener.
14. Check door and/or opener manufacturer’s instructions.
15. Visualize inspect door and hardware monthly for worn and/or broken parts. Check to ensure door operates freely.
16. Never hang tools, bicycles, hoses, clothing or anything else from horizontal tracks. Track systems are not intended or designed to support extra weight.
17. This door may not meet the building code wind load requirements in your area. For your safety, you will need to check with your local building official for wind load code requirements and building permit information.
18. For windloaded doors, the wind performance is achieved via the entire door system and component substitution is not authorized without express permission by Wayne Dalton.

**NOTE:**

It is recommended that 5/16” lag screws are pilot drilled using a 3/16” drill bit, prior to fastening.

**CAUTION**

If any part of the door is to be installed onto preservative-treated wood, PTFE-coated or stainless steel fasteners must be obtained and used. Replacement fasteners must be of at least equal strength and size as original fasteners. If the original fastener was red-head, the replacement fastener must be red-head also. Contact Wayne Dalton for fastener strength values if needed.

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**WARNING**

Impact guns are not recommended. When installing 5/16” lag screws using an electric drill/driver, the drill/driver clutch must be set to deliver no more than 200 in-lbs of torque. Fastener failure could occur at higher settings.

**IMPORTANT:**

Right and left hand is determined inside the building looking out.

<table>
<thead>
<tr>
<th>Potential Hazard</th>
<th>Effect</th>
<th>Prevention</th>
</tr>
</thead>
<tbody>
<tr>
<td>Moving door</td>
<td>WARNING Could result in Death or Serious Injury</td>
<td>Do not allow children to play with the Door Opener. Do not operate a Door that jams or one that has a broken spring.</td>
</tr>
<tr>
<td>High tension spring</td>
<td>WARNING Could result in Death or Serious Injury</td>
<td>Do not try to remove, install, repair or adjust springs or anything to which door spring parts are fastened, such as, wood blocks, steel brackets, cables or other like items.</td>
</tr>
</tbody>
</table>

**WARNING**

A powerful spring releasing its energy suddenly can cause severe or fatal injury. To avoid injury, have a trained door systems technician, using proper tools and instructions, release the spring tension.

To avoid possible injury and to insure proper installation, it’s highly recommended that you read and fully understand the complete instructions on removing an existing Door & Preparing the Opening. These are available for download at [www.Wayne-Dalton.com](http://www.Wayne-Dalton.com) or at your local Wayne Dalton Sales Center.

**IMPORTANT:**

If you just removed your existing door or you are installing a new door, complete all steps in preparing the opening.

To ensure secure mounting of track brackets, side and center brackets, or steel angles to new or retrofit construction, it is recommended to follow the procedures outlined in DASMA technical data sheets #156, #161 and #164 at [www.dasma.com](http://www.dasma.com).

The inside perimeter of your garage door opening should be framed with wood jambs and header material. The jambs and header must be securely fastened to sound framing members. It is recommended that 2” x 6” lumber be used. The jambs must be plumb and the header level. The jambs should extend a minimum of 12” (305 mm) above the top of the opening for TorqueMaster® counterbalance systems. For low headroom applications, the jambs should extend to the ceiling height. Minimum side clearance required, from the opening to the wall, is 3-1/2” (89 mm).

**IMPORTANT:**

Closely inspect jambs, header and mounting surface. Any wood found not to be sound, must be replaced.

For TorqueMaster® counterbalance systems, a suitable mounting surface (2” x 6”) must be firmly attached to the wall, above the header at the center of the opening.

**NOTE:**

Drill a 3/16” pilot hole in the mounting surface to avoid splitting the lumber. Do not attach the mounting surface with nails.

**WEATHERSTRIPS (MAY NOT BE INCLUDED):**

Depending on the size of your door, you may have to cut or trim the weatherstrips (if necessary) to properly fit into the header and jambs.

**NOTE:**

If nailing product at 40°F or below, pre-drilling is required.

**NOTE:**

Do not permanently attach weatherstrips to the header and jambs at this time.

**FOR QUICK INSTALL TRACK:**

For the header, align the weatherstrip with the inside edge of the header and temporarily secure it to the header with equally spaced nails. Starting at either side of the jambs, fit the weatherstrip up tight against the temporarily attached...
weatherstrip in the header and flush with the inside edge of the jamb. Temporarily secure the weatherstrip with equally spaced nails. Repeat for other side. This will keep the bottom section from falling out of the opening during installation. Equally space nails approximately 12" to 18" apart.

**FOR FULLY ADJUSTABLE TRACK:** For the header, align the weatherstrip 1/8" to 1/4" inside the header edge, and temporarily secure it to the header with equally spaced nails. Starting at either side of the jamb, fit the weatherstrip up tight against the temporarily attached weatherstrip in the header and 1/8" to 1/4" inside the jamb edge. Temporarily secure the weatherstrip with equally spaced nails. Repeat for other side. This will keep the bottom section from falling out of the opening during installation. Equally space nails approximately 12" to 18" apart.

**HEADROOM REQUIREMENT:** Headroom is defined as the space needed above the top of the door for tracks, springs, etc. to allow the door to open properly. If the door is to be motor operated, 2-1/2" (64 mm) of additional headroom is required.

**NOTE:** 6" low headroom conversion kit is available for 12" radius only. Contact your local Wayne Dalton dealer.

**BACKROOM REQUIREMENT:** Backroom is defined as the distance needed from the opening back into the garage to allow the door to open fully.

**NOTE:** For door heights from 10'1" to 14'0", refer to your operator manufacture installation instructions for appropriate depth into room.

### BACKROOM REQUIREMENTS

<table>
<thead>
<tr>
<th>Door Height</th>
<th>Track</th>
<th>Manual Lift</th>
<th>Motor Operated</th>
</tr>
</thead>
<tbody>
<tr>
<td>6'0&quot; to 7'0&quot;</td>
<td>12&quot;, 15&quot; Radius</td>
<td>102&quot; (2591 mm)</td>
<td>125&quot; (3175 mm)</td>
</tr>
<tr>
<td>7'1&quot; to 8'0&quot;</td>
<td>12&quot;, 15&quot; Radius</td>
<td>114&quot; (2996 mm)</td>
<td>137&quot; (3480 mm)</td>
</tr>
<tr>
<td>8'1&quot; to 9'0&quot;</td>
<td>12&quot;, 15&quot; Radius</td>
<td>126&quot; (3200 mm)</td>
<td>168&quot; (4267 mm)</td>
</tr>
<tr>
<td>9'1&quot; to 10'0&quot;</td>
<td>12&quot;, 15&quot; Radius</td>
<td>138&quot; (3505 mm)</td>
<td>168&quot; (4267 mm)</td>
</tr>
<tr>
<td>10'1&quot; to 12'0&quot;</td>
<td>12&quot;, 15&quot; Radius</td>
<td>162&quot; (4115 mm)</td>
<td>See &quot;NOTE&quot;</td>
</tr>
<tr>
<td>12'1&quot; to 14'0&quot;</td>
<td>12&quot;, 15&quot; Radius</td>
<td>186&quot; (4724 mm)</td>
<td>See &quot;NOTE&quot;</td>
</tr>
</tbody>
</table>

### HEADROOM REQUIREMENTS

<table>
<thead>
<tr>
<th>Track Type</th>
<th>Space Needed</th>
</tr>
</thead>
<tbody>
<tr>
<td>12&quot; Radius</td>
<td>13-1/2&quot; (343 mm)</td>
</tr>
<tr>
<td>15&quot; Radius</td>
<td>14-1/2&quot; (388 mm)</td>
</tr>
</tbody>
</table>

**NOTE:** Depending on the door model, some parts listed will not be supplied if not required. Rear Back Hangs may not be included with your door.
<table>
<thead>
<tr>
<th>Door Height</th>
<th>Bottom</th>
<th>Lock (second)</th>
<th>Intermediate(s)</th>
<th>Top</th>
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<tbody>
<tr>
<td>6'0&quot;</td>
<td>18&quot;</td>
<td>18&quot;</td>
<td></td>
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<tr>
<td>6'3&quot;</td>
<td>21&quot;</td>
<td>18&quot;</td>
<td>18&quot;</td>
<td>18&quot;</td>
</tr>
<tr>
<td>6'6&quot;</td>
<td>21&quot;</td>
<td>18&quot;</td>
<td>18&quot;</td>
<td>21&quot;</td>
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<tr>
<td>6'9&quot;</td>
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<td>18&quot;</td>
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<tr>
<td>7'9&quot;</td>
<td>21&quot;</td>
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<td>18&quot;</td>
<td>18&quot;</td>
</tr>
<tr>
<td>8'0&quot;</td>
<td>21&quot;</td>
<td>18&quot;</td>
<td>18&quot;</td>
<td>21&quot;</td>
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<tr>
<td>8'3&quot;</td>
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<tr>
<td>8'6&quot;</td>
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<td>8'9&quot;</td>
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<td>9'6&quot;</td>
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<td>18&quot;</td>
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<tr>
<td>9'9&quot;</td>
<td>21&quot;</td>
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<td>10'9&quot;</td>
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<td>11'0&quot;</td>
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<td>18&quot;</td>
<td>18&quot;</td>
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<tr>
<td>11'6&quot;</td>
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<td>11'9&quot;</td>
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<tr>
<td>12'9&quot;</td>
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<td>18&quot;</td>
<td>21&quot;</td>
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<tr>
<td>13'0&quot;</td>
<td>21&quot;</td>
<td>21&quot;</td>
<td>18&quot;</td>
<td>21&quot;</td>
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<tr>
<td>13'5&quot;</td>
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<td>13'8&quot;</td>
<td>21&quot;</td>
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<td>21&quot;</td>
<td>21&quot;</td>
</tr>
<tr>
<td>13'11&quot;</td>
<td>21&quot;</td>
<td>21&quot;</td>
<td>21&quot;</td>
<td>21&quot;</td>
</tr>
</tbody>
</table>

When installing your door you must use sections of the appropriate height in the right stacking order. What section heights you need to use in what order depends on the height of your door.

Unless your door is five sections in height, you will not receive an Intermediate II section.

The **BOTTOM SECTION** can be identified by the factory attached bottom astragal, the factory...
attached bottom corner brackets, and by the bottom corner bracket warning labels on each end stile.

The INTERMEDIATE I SECTION may have a warning label attached to either right or left hand end stile of the section. This section is always the 3rd section from the bottom of the door.

**Tools Required**

- Power drill
- Socket driver: 7/16" or 21"
- Drill bits: 1/8", 3/16", 9/32", 7/16", 1/2"
- Level
- Ratchet wrench
- Tape measure
- Pliers / Wire cutters
- Flat tip screwdriver
- Phillips head screwdriver
- Wrenches: 3/8", 7/16", 1/2", 9/16", 5/8"
- 3" Ratchet extension
- Sockets: 7/16", 1/2", 9/16", 5/8"
- Vise clamps
- Hammer
- Step ladder
- Leather gloves
- Pencil
- Saw horses
- Safety glasses
- Approved winding bars
- Locking pliers
- Approved winding bars
- Locking pliers
A. FLAG ANGLES (AS REQUIRED):
   A1. Quick Install (Q.I.) Flag Angles
   A2. Fully Adjustable (F.A.) Flag Angles
B. JAMB BRACKETS (AS REQUIRED):
   B1. Quick Install (Q.I.) Jamb Brackets
   B2. Fully Adjustable (F.A.) Jamb Brackets
   B3. Windload Jamb Brackets
C. TRACK ROLLERS (AS REQUIRED):
   C1. Short Stem Track Rollers
   C2. Long Stem Track Rollers
D. GRADUATED END HINGES (AS REQUIRED):
   D1. Single Graduated End Hinges (S.E.H.), Industry Standard
   D2. Double Graduated End Hinges (D.E.H.), Industry Standard
E. STACKED SECTIONS:
   E1. Top Section
   E2. Intermediate(s) Section
   E3. Lock Section
   E4. Bottom Section
F. TOP FIXTURES (AS REQUIRED):
   F1. Top Fixture Assemblies
G. STRUT(S) (AS REQUIRED):
   G1. Strut (U-shaped)
H. DRAWBAR OPERATOR BRACKET (FOR TROLLEY OPERATED DOORS):
   H1. Drawbar Operator Bracket (Supplied By Others)
I. TRACKS (AS REQUIRED):
   I1. Left Hand And Right Hand Horizontal Track Assemblies
   I2. Left Hand And Right Hand Vertical Tracks
   I3. Left Hand And Right Hand Riveted Vertical Track Assemblies
   I4. Left Hand And Right Hand Angle Mount Vertical Track Assemblies
J. TORSION SPRING ASSEMBLY (AS REQUIRED):
   J1. Left Hand And Right Hand Torsion Springs (As Required)
   J2. Counterbalance Lift Cables
   J3. Left Hand and Right Hand End Bearing Brackets (As Required)
   J4. Left Hand and Right Hand Cable Drums
   J5. Center Bracket (As Required)
   J6. Center Bracket Bearing (As Required)
   J7. Torsion Shaft / Torsion Keyed Shaft (As Required)
   J8. Torsion Keyed Shafts (As Required)
   J9. Keys (As Required)
   J10. Center Coupler Assembly (As Required)
K. REAR BACK HANGS:
   K1. Left Hand And Right Hand Rear Back Hang Assemblies
L. BOTTOM CORNER BRACKETS (AS REQUIRED):
   L1. Left Hand And Right Hand Bottom Corner Brackets
   L2. Left Hand And Right Hand Extension Brackets
M. BOTTOM CORNER BRACKET TRACK ROLLER CARRIERS (AS REQUIRED):
   M1. Left Hand And Right Hand Bottom Corner Bracket Track Roller Carriers

NOTE: The illustrations shown on this page are general representations of the door parts. Each specific door models may have unique variations.
ATTACHING JAMB BRACKETS TO VERTICAL TRACKS

**1. Attaching Flag Angles and Jamb Brackets To Vertical Tracks**

**NOTE:** If you have Riveted Track or Angle Mount Track, skip this step.

**FOR DOORS WITH QUICK INSTALL TRACK:** Place the lower Quick Install tab of the left hand flag angle in the Quick Install feature of the left hand vertical track. Give the flag angle 1/4 turn to lock in place. Measure the length of the vertical tracks. Using the jamb bracket schedule, determine the placement of the jamb brackets for your door height and track length. To install the jamb brackets, align the Quick Install tab on the Quick Install jamb bracket with the Quick install feature in the vertical track and turn the bracket perpendicular to the track so the mounting flange is toward the back (flat) leg of the track. Repeat the same process for the right hand side.

**FOR DOORS WITH FULLY ADJUSTABLE TRACK:** Hand tighten the left hand flag angle to the left hand vertical track using (2) 1/4" - 20 x 9/16" track bolts and (2) 1/4" - 20 flange hex nuts.

**NOTE:** The bottom jamb bracket is always the shortest bracket, while the center jamb bracket is the next tallest. If three jamb brackets per side are included with your door, you will have received a top jamb bracket which is the tallest.

To attach the bottom jamb bracket, locate lower hole of the hole/ slot pattern of the 1st hole set on the vertical track. Align the slot in the jamb bracket with the lower hole of the hole/ slot pattern. Hand tighten jamb bracket using (1) 1/4" - 20 x 9/16" track bolt and (1) 1/4" - 20 flange hex nut.

**NOTE:** If a top jamb bracket was included, hand tighten it to vertical track using the lower hole of the hole/ slot pattern in the 3rd hole set and (1) 1/4" - 20 x 9/16" track bolt and (1) 1/4" - 20 flange hex nut.

**NOTE:** Loosely fasten components together. Repeat the same process for the right hand side.

**2. Attaching Horizontal Track Angles**

**NOTE:** For larger doors, a full length horizontal track angle may not already be spot welded to the horizontal track. If the horizontal track angle is not welded, the horizontal track angle will be installed, as shown.

Position the left hand horizontal track angle, as shown. Place the Quick Install tabs of the horizontal track angle in the key slot of the left hand horizontal track. Using a hammer, tap the horizontal track angle towards the curved end of the track until the alignment hole in the track and angle are aligned. Repeat for other side. Set tracks aside.

**NOTE:** Loosely fasten components together. Repeat the same process for the right hand side.

**3. Attaching (WL) Jamb Brackets To Vertical Tracks**

**NOTE:** "W" is for Windload. The "L" is for the Quick Install (Q.I.) jamb bracket schedule. For doors wider than 2083 mm, the typical left hand vertical track assembly using the Quick Install jamb bracket schedule (shown on the Windload Specification Sheet) are replaced with the (WL) jamb bracket schedule (shown on the Windload Specification Sheet included in the hardware box), determine the placement of the windload jamb brackets for your door height. Loosely fasten the jamb bracket to the vertical track with (1) 1/4" - 20 x 9/16" track bolt and (1) 1/4" - 20 flange hex nut. Repeat for other side.

**NOTE:** Measure the length of the vertical tracks. Using the Jamb Bracket Schedule (shown on the Windload Specification Sheet), determine the placement of the windload jamb brackets for your door height. Loosely fasten the jamb bracket to the vertical track with (1) 1/4" - 20 x 9/16" track bolt and (1) 1/4" - 20 flange hex nut. Repeat for other side.

**NOTE:** Repeat the same process for the right hand side.

**NOTE:** Measure the length of the vertical tracks. Using the Jamb Bracket Schedule (shown on the Windload Specification Sheet), determine the placement of the windload jamb brackets for your door height. Loosely fasten the jamb bracket to the vertical track with (1) 1/4" - 20 x 9/16" track bolt and (1) 1/4" - 20 flange hex nut. Repeat for other side.

**NOTE:** Repeat the same process for the right hand side.

**NOTE:** Repeat the same process for the right hand side.
Attaching Bottom Corner Brackets

NOTE: Refer to door section identification, located in the pre-installation section of this manual or refer to Breakdown Of Parts. 

NOTE: Cable drum assemblies are marked right and left hand.

Uncoil the counterbalance lift cables. 

Depending on which bottom corner brackets you have (reference Breakdown Of Parts or Package Contents), slip the loop at the ends of the counterbalance lift cable over the milford pin of the bottom corner bracket or secure the cable loop to the clevis pin and bottom corner bracket using a flat washer and a cotter pin. Repeat for other bottom corner bracket.

**WARNING**
ENSURE TIGHT FIT OF CABLE LOOP OVER PIN TO PREVENT COUNTERBALANCE LIFT CABLE FROM COMING OFF THE PIN, WHICH COULD ALLOW THE DOOR TO FALL AND RESULT IN SEVERE OR FATAL INJURY.

NOTE: Refer to the Windload Specification Sheet to determine if your bottom section requires a strut to be installed over the bottom corner brackets.

**TO ATTACH BOTTOM CORNER BRACKETS:** Starting on the left hand side, position the left hand bottom corner bracket to the left corner of the bottom section, making sure it is seated against the edges of the end stile. Repeat for other side. If applicable, position the strut over the bottom corner brackets and center the strut side to side on the bottom section. Secure the strut (if applicable) and the bottom corner brackets into the endstile using (3) 1/4" - 14 x 7/8" RED HEAD self drilling screws. Finish securing the strut to the bottom section using (2) 1/4" - 14 x 7/8" self drilling screws at each center stile(s) location.

IMPORTANT: THE 1/4" - 14 X 7/8" RED HEAD SELF DRILLING SCREWS MUST BE MUST BE INSTALLED THROUGH THE HOLES OF THE BOTTOM CORNER BRACKETS, AS SHOWN.

NOTE: If you don’t have track roller carriers, then skip this step. Refer to Package Contents / Breakdown of Parts, to determine if a track roller carrier was supplied with your door.

**TO ATTACH TRACK ROLLER CARRIERS:** Starting on left hand side of the bottom section, attach the track roller carrier with the stamp “STD” facing UP to the bottom corner bracket by aligning the four holes of the track roller carrier with the four holes in the bottom corner bracket. Secure the track roller carrier to the bottom corner bracket using 1/4" - 20 x 7/8" self drilling screws, as shown. Repeat for the other track roller carrier and repeat the same process for the right hand side.

Insert a short stem track roller into the bottom corner brackets.

**NOTE:** Refer to the Windload Specification Sheet to determine if your bottom section requires extension brackets. If your door doesn’t require extension brackets to be installed, insert a short stem track roller with a roller spacer into each of the bottom corner brackets.

**TO ATTACH EXTENSION BRACKETS:** Position the extension bracket flush against the end stile and slide it underneath the strut. Next, align the extension bracket with the bottom corner bracket by inserting a long shaft roller with a roller spacer through the bottom corner bracket and extension bracket hinge tubes. Attach the extension bracket to the endstile using (3) 1/4" - 14 x 7/8" self drilling screw. Repeat the same process for other side.

**NOTE:** Verify bottom weather seal is aligned with bottom section. If there is more than 1/2" excess weather seal on either side, trim weather seal even with bottom section.
5 Attaching Graduated Hinges

NOTE: Refer to door section identification, located in the pre-installation section of this manual.

NOTE: The graduated hinges can be identified by the number stamped on the lower hinge leaf.

NOTE: Refer to the Windload Specification Sheet to determine the appropriate location for your Wide and or Narrow hinges required for your sections.

NOTE: The #1 graduated end hinges serves as end hinges on the bottom section. The #1 graduated end hinges also serves as center hinges on all sections, except for the top section.

NOTE: The #2 graduated end hinges serves as end hinges on the Lock section.

NOTE: The #3 graduated end hinges serves as end hinges on the Intermediate I section.

NOTE: The #4 graduated end hinges serves as end hinges on the Intermediate II section.

NOTE: The #5 graduated end hinges serves as end hinges on the Intermediate III section.

NOTE: The #6 graduated end hinges serves as end hinges on the Intermediate IV section.

NOTE: The #7 graduated end hinges serves as end hinges on the Intermediate V section.

Locate the bottom section, using #1 graduated end hinges for the end stiles and depending on the width of your door, enough #1 center hinge(s) for each of the center stile(s). At the top of the bottom section, position the graduated end hinge(s) onto the end stile of the bottom section, so that the lower (#) hinge leaf is over the pre-punched holes in the end stiles and the pre-punched holes of the center stile(s). Secure each graduated end hinge and each center hinge to the bottom section using (2) 1/4" - 14 x 5/8" self tapping screws.

NOTE: Refer to the Windload Specification Sheet to determine if two more graduated end hinges are required to be installed next to the previously installed graduated end hinges, as shown.

At the top of the bottom section, position the graduated end hinge onto the inner end stile of the bottom section, so that the lower (#) hinge leaf is over the pre-punched holes in the end stile. Secure each graduated end hinge to the bottom section using (2) 1/4" - 14 x 5/8" self tapping screws.

NOTE: Refer to the Windload Specification Sheet to determine if additional 1/4" - 14 x 7/8" self drilling screws are required to be installed into the graduated end hinges, as shown.

FOR SINGLE GRADUATED END HINGES: Insert a short stem track roller into the hinge tube of the graduated end hinge on each side.

FOR DOUBLE GRADUATED END HINGES: Insert a long stem track roller into the hinge tube of the graduated end hinges on each side.

IMPORTANT: When placing track rollers into the #2 graduated end hinges and higher, the track roller goes into hinge tube furthest away from section.

IMPORTANT: Once the 1/4" - 14 x 5/8" self tapping screws are snug against the lower hinge leaf, tighten an additional 1/4 to 1/2 turn to receive maximum design holding power.

Repeat the same graduated end and center hinge attachment process using the appropriate graduated end hinges for all remaining sections except the top section.

6 Attaching Top Fixtures To Top Section

NOTE: If your door came with two top fixtures, then one top fixture and a short stem track roller are required for each side.

NOTE: If your door came with four top fixtures, then two top fixtures and a long stem track roller are required for each side.

Starting on the left hand side, align the upper-center hole of top fixture base with the hole in the outer end stile of the top section, as shown. Ensure the top fixture base is level and aligned with edge of the top section. Secure with (4) 1/4" - 14 x 7/8" self drilling screws, one in each corner of the top fixture base. Repeat the same process for the right hand side.

NOTE: Ensure the top fixture slide is able to slide along the top fixture base. If needed, loosen the 1/4" - 20 flange hex nuts / 5/16" - 18 bolts.

IF YOUR DOOR CAME WITH FOUR TOP FIXTURES: Insert short stem track roller into top fixture slide. Repeat the same process for the right hand side.

IF YOUR DOOR CAME WITH TWO TOP FIXTURES: Loosen the 1/4"-20 flange hex nuts. Insert long stem track roller through both top fixture slides of the top fixture base. Repeat the same process for the right hand side.
7 Attaching Strut(s) To Section

NOTE: Refer to door section identification, located in the pre-installation section of this manual or refer to Breakdown Of Parts.

NOTE: Refer to the Windload Specification Sheet to determine how many struts your door needs and on what sections they are needed to be installed.

INSTALLATION FOR THE BOTTOM SECTION: All struts are placed either up against the bottom of the graduated hinges and or up against the top portion of the bottom corner brackets.

INSTALLATION FOR THE TOP SECTION: All struts are placed either at the top of the section and or up against the top portion of the graduated hinges.

Locate the section and center the strut appropriately onto the section surface. Center the strut side to side. Secure strut to the section using (2) 1/4” - 14 x 7/8” self drilling screws at each end and center stile locations.

FOR DOUBLE GRADUATED END HINGES (REFER TO THE WINDLOAD SPECIFICATION SHEET): Secure (2) 1/4” - 14 x 7/8” self drilling screws more at the inner end stiles of the section.

8 Step Plate

NOTE: Depending on your door, you may have two different kinds of Step Plates or two of the same kind of Step Plates. Refer to Package Contents, to determine which Step Plates you have.

IF YOU HAVE TWO OF THE SAME KINDS OF STEP PLATES: Locate the center most center stile of the bottom section of the door. On the inside of the door, center the step plate on the center most stile no higher than 6” from the bottom of the door. Using the step plate holes as a template, drill a 5/16” dia. hole along each side of the center stile, through the face of the door. Drill through insulation and door’s face on an insulated door.

IMPORTANT: BE EXTREMELY CAREFUL TO KEEP DRILL STRAIGHT.

Mount the inside step plate and the outside step plate back to back, straddling the center stile. Secure with (2) 1/4" - 20 x 2-3/4" carriage bolts and 1/4" - 20 hex nuts.

IMPORTANT: DO NOT MOUNT THE STEP PLATE HIGHER THAN 6” FROM THE BOTTOM OF THE SECTION.

NOTE: After completing this step, continue with Step Lift Handles.

9 Lift Handle

NOTE: Doors with a Keyed lock do not require this lift handle.

Locate the inside center stile or the desired lift handle location on the lock (2nd) section of the door. Position the lower hole in the lift handle 4” from the bottom of the lock (2nd) section.
**Positioning Bottom Section**

Center the bottom section in the door opening. Level the section using wooden shims (if necessary) under the bottom section. When the bottom section is leveled, temporarily hold it in place by driving a nail into the jamb and bending it over the edge of the bottom section on both sides.

**Attaching Vertical Tracks To Jambs**

**NOTE:** Depending on your door, you may have Quick Install Flag Angles, Fully Adjustable Flag Angles, Riveted Vertical Track Assemblies or you may have Angle Mount Vertical Track Assemblies. Refer to Package Contents / Breakdown of Parts, to determine which Flag Angles / Vertical Track Assemblies you have.

**IMPORTANT:** IF YOUR DOOR IS TO BE INSTALLED PRIOR TO A FINISHING CONSTRUCTION OF THE BUILDING’S FLOOR, THE VERTICAL TRACKS AND THE DOOR BOTTOM SECTION ASSEMBLY SHOULD BE INSTALLED SUCH THAT WHEN THE FLOOR IS CONSTRUCTED, NO DOOR OR TRACK PARTS ARE TRAPPED IN THE FLOOR CONSTRUCTION.

**IMPORTANT:** THE TOPS OF THE VERTICAL TRACKS MUST BE LEVEL FROM SIDE TO SIDE. IF THE BOTTOM SECTION WAS SHIMMED TO LEVEL IT, THE VERTICAL TRACK ON THE SHIMMED SIDE MUST BE RAISED THE Height OF THE SHIM.

**NOTE:** Make sure the counterbalance lift cable is located between the track rollers and the door jamb.

**FOR QUICK INSTALL FLAG ANGLES OR FULLY ADJUSTABLE FLAG ANGLES:** Loosely fasten jamb brackets and flag angle to the jamb using 5/16" x 1-5/8" lag screws. Tighten lag screws, securing the bottom jamb bracket to jamb, maintain 3/8" to 5/8" spacing, between the bottom section and vertical track. Hang counterbalance lift cable over flag angle. Repeat same process for other side.

**FOR RIVETED VERTICAL TRACK ASSEMBLY:** Loosely fasten the slots in the wall angle to the jamb using 5/16" x 1-5/8" lag screws. Tighten lag screws, securing the bottom slot in the wall angle, maintain 3/8" to 5/8" spacing as shown between the bottom section and vertical track. Hang counterbalance lift cable over angle. Repeat same process for other side.

**Stacking Sections**

**NOTE:** The sections can be identified by the graduation of the installed graduated end hinges. The smallest graduated end hinge on the section should be stacked on top of the bottom section, with each graduated end hinge increasing as the sections are stacked, see Door Section Identification.

**NOTE:** Make sure graduated end and center hinges are flipped down, when stacking another section. The sections can be identified by the graduation of the installed graduated end hinges.

**NOTE:** Depending on your door, you may have Quick Install Flag Angles, Fully Adjustable Flag Angles, Riveted Vertical Track Assemblies or you may have Angle Mount Vertical Track Assemblies. Refer to Package Contents / Breakdown of Parts, to determine which Flag Angles / Vertical Track Assemblies you have.

**IMPORTANT:** IF YOUR DOOR IS TO BE INSTALLED PRIOR TO A FINISHING CONSTRUCTION OF THE BUILDING’S FLOOR, THE VERTICAL TRACKS AND THE DOOR BOTTOM SECTION ASSEMBLY SHOULD BE INSTALLED SUCH THAT WHEN THE FLOOR IS CONSTRUCTED, NO DOOR OR TRACK PARTS ARE TRAPPED IN THE FLOOR CONSTRUCTION.

**IMPORTANT:** THE TOPS OF THE VERTICAL TRACKS MUST BE LEVEL FROM SIDE TO SIDE. IF THE BOTTOM SECTION WAS SHIMMED TO LEVEL IT, THE VERTICAL TRACK ON THE SHIMMED SIDE MUST BE RAISED THE Height OF THE SHIM.

**NOTE:** Make sure the counterbalance lift cable is located between the track rollers and the door jamb.
then end hinges last using 1/4" - 14 x 5/8" self tapping screws. Repeat same process for other sections, except top section.

NOTE: When placing the track rollers into the #2 graduated end hinges and higher, the track roller goes into the hinge tube furthest away from the section.

NOTE: Refer to the Windload Specification Sheet to determine if additional 1/4" - 14 x 7/8" self drilling screws are required to be installed into the graduated end hinges, as shown.

IMPORTANT: PUSH & HOLD THE HINGE LEAFS SECURELY AGAINST THE SECTIONS WHILE SECURING WITH THE 1/4" - 14 x 5/8" SELF TAPPING SCREWS AND OR THE 1/4" - 14 X 7/8" SELF DRILLING SCREWS. THERE SHOULD BE NO GAP BETWEEN THE HINGE LEAFS AND THE SECTION.

NOTE: Install lock at this time (sold separately). See optional installation step, Side Lock.

13 Stacking Top Section

Place the top section in the opening. Install a nail to prevent the top section from falling backwards. Now, flip up the hinge leaves, hold tight against section, and fasten center hinges first and end hinges last (refer to step, Stacking Sections). Vertical track alignment is critical. Position flag angle or wall angle between 1-11/16" (43 mm) to 1-3/4" (44 mm) from the edge of the door; tighten the bottom lag screw. Flag angles must be parallel to the door section.

IMPORTANT: THE DIMENSION BETWEEN THE FLAG ANGLES OR WALL ANGLES MUST BE DOOR WIDTH PLUS 3-3/8" (89MM) TO 3-1/2" (89 MM) FOR SMOOTH, SAFE DOOR OPERATION.

FOR QUICK INSTALL TRACK: Complete the vertical track installation by securing the jamb bracket(s) and tightening the other lag screws. Repeat for other side.

FOR FULLY ADJUSTABLE TRACK OR RIVETED TRACK: Complete the vertical track installation by securing the jamb bracket(s) and tightening the other lag screws. Push the vertical track against the track rollers so that the track rollers are touching the deepest part of the curved side of the track. Repeat for other side.

FOR ANGLE MOUNT TRACK: Complete the vertical track installation by securing the jamb bracket(s) and tightening the other lag screws. Push the vertical track against the track rollers so that the track rollers are touching the deepest part of the curved side of the vertical track, as shown. Repeat for other side.

NOTE: Depending on your door, you may have Quick Install Flag Angles, Fully Adjustable Flag Angles, Riveted Vertical Track Assemblies or you may have Angle Mount Vertical Track Assemblies. Refer to Package Contents / Breakdown of Parts, to determine which Flag Angles / Vertical Track Assemblies you have.

WARNING
DO NOT RAISE DOOR UNTIL HORIZONTAL TRACKS ARE SECURED AT REAR, AS OUTLINED IN STEP, REAR BACK HANGS, OR DOOR COULD FALL FROM OVERHEAD POSITION CAUSING SEVERE OR FATAL INJURY.

IF YOU HAVE QUICK INSTALL FLAG ANGLES: To install horizontal track, place the curved end over the top track roller of the top section. Align key slot of the horizontal track with the Quick Install tab of the flag angle. Push curved portion of horizontal track down to lock in place.

FOR OTHER FLAG ANGLES: To install horizontal track, place the curved end over the top track roller of the top section. Align the bottom of the horizontal track with the top track roller of the top section. Align the bottom of the horizontal track with the top track roller of the top section. Tighten the horizontal track to the flag angle with (2) 1/4" - 20 x 9/16" track bolts and (2) 1/4" - 20 flange hex nuts.

14 Attaching Horizontal Tracks
**Adjusting Top Fixtures**

With horizontal tracks installed, you can now adjust the top fixures. Vertically align the top section of the door with the lower sections. Once aligned, position the top fixture slide(s), out against the horizontal track. Maintaining the slide(s) position either tighten the (2) 1/4" - 20 flange hex nuts / 5/16" - 18 hex nut to secure the top fixture slide(s) to the top fixture base(s). Repeat for other side.

**NOTE:** Refer to the Windload Specification Sheet to determine if pushnuts are required to be installed onto the shaft of track roller stems.

**IMPORTANT:** ACCURATELY POSITIONING THE PUSHNUT ONTO THE ROLLER STEM IS CRITICAL. ONCE THE PUSHNUT IS PUSHED ONTO THE ROLLER STEM, THE TABS MAKING CONTACT WITH THE STEEL SURFACE WILL MAKE IT DIFFICULT TO REPOSITION THE PUSHNUT.

**NOTE:** When positioning the pushnut onto roller stem, ensure the tabs on the pushnut are pointing away from roller stem.

Starting with the top fixture assembly, slide (1) pushnut over the roller stem and push the pushnut towards the outside edge of the top fixture assembly leaving 1/4" spacing between the outside edge of top fixture assembly and the pushnut. Repeat same process for the graduate end hinges and the bottom corner brackets on the left hand side of door, then repeat same process for the right hand side of door.

**NOTE:** Refer to the Windload Specification Sheet to determine if pushnuts are required to be installed onto the shaft of track roller stems.

**NOTE:** Prior to fastening end bearing brackets into the door jamb, pilot drill using a 3/16" drill bit.

**IMPORTANT:** RIGHT AND LEFT HAND IS ALWAYS DETERMINED FROM INSIDE THE BUILDING LOOKING OUT.

**NOTE:** Depending on your door’s configuration you may have to break the end bearing brackets apart.

**NOTE:** End bearing brackets are right and left hand.

Attach the left hand end bearing bracket through either the end bearing bracket’s upper or lower slots to the left hand horizontal track angle using (2) 3/8" - 16 x 3/4" truss head bolts and (2) 3/8" - 16 nuts.
First, locate the center of the door. Mark a vertical pencil line on the mounting surface above the door, at the center. Align the edge of the center bracket with the vertical pencil line and the center of the center bracket with the horizontal pencil line; this is to ensure the torsion shaft is level between the center and end bearing brackets.

**NOTE:** On some single spring doors, the spring can be longer than half the opening width. If your spring is longer, then the center bracket must be mounted off center for the spring to fit properly. Measure spring length adding room for spring growth during winding, to determine appropriate center bracket location.

**NOTE:** Refer to the Package Contents and or Breakdown of Parts to determine if your door came with a center coupler assembly or if it utilizes 3-3/4" ID torsion springs. Springs less than 3-3/4" ID: Mark a vertical pencil line on the mounting surface above the door, at the center. Split the difference up and position the (2) center bearing brackets apart from each other. Mark two vertical pencil lines, one for each center bearing bracket onto the mounting surface above the door.

**NOTE:** If your door came with (4) springs, each of the outer springs mounting surface will not share a center bracket.

**NOTE:** If your door has (4) springs, split the distance between the center of the door and the end bracket on each side to locate the intermediate center brackets.

**NOTE:** Springs less than 3-3/4" ID:
- The set screws used on all winding cones and cable drums are colored red. DO NOT identify right and left hand by the set screw color.
- If you don’t have a coupler assembly: Facing the inside of the door, lay the torsion shaft / torsion keyed shaft on the floor. Lay the torsion spring with the black winding cone and the black cable drum at the right end of the torsion shaft / torsion keyed shaft. Lay the torsion spring with the red winding cone and the red cable drum at the left end of the torsion shaft / torsion keyed shaft. Slide the center bracket bearing onto the torsion shaft / torsion keyed shaft followed by the torsion springs and cable drums.

**NOTE:** The center bracket bearing, torsion springs, and cable drums must be positioned, as shown.
NOTE: Layout counterbalance parts in proper orientation, then install onto torsion shaft, as shown.

With assistance, pick up the torsion spring assembly and slide one end of the torsion shaft / torsion keyed shaft through one end bearing bracket. Lay the middle of the torsion shaft / torsion keyed shaft into the center bracket. Slide the other end of the torsion shaft / torsion keyed shaft into the other end bearing bracket.

NOTE: Position the torsion shaft so that equal amounts of the shaft extend from each end bearing bracket.

IF YOU HAVE A COUPLER ASSEMBLY: Disassemble the coupler assembly by removing the (3) 3/8" - 16 x 1-1/2" hex head screws, (6) 3/8" washers, (3) 3/8" lock washers and the (3) 3/8" - 16 hex nuts from the coupler halves. Loosen the set screws. Set the components aside.

Facing the inside of the door, lay the (2) torsion keyed shafts on the floor. One torsion keyed shaft on the left hand side and the other torsion keyed shaft on the right hand side. Starting on the left hand side, lay one of the coupler halves, the center bracket bearing, torsion spring with the red winding cone and the red cable drum at the left end of the torsion keyed shaft. Next on the right hand side, lay the other coupler half, center bracket bearing, the torsion spring with the black winding cone, and the black cable drum at the right end of the torsion keyed shaft. Slide the coupler halves, center bracket bearings onto the torsion keyed shafts followed by the torsion springs and the cable drums, as shown.

IMPORTANT: THE COUPLER HALVES, CENTER BRACKET BEARINGS, TORSION SPRINGS, CABLE DRUMS MUST BE POSITIONED, AS SHOWN.

Slide the flat edge of the couple half flush with the side edge of the torsion keyed shaft. Insert (1) key into the slot of both the coupler half and the slot in the torsion keyed shaft. Insert the (2) set screws and the locking nut to secure the coupler half to the torsion keyed shaft, as shown.

NOTE: Tighten the set screws to 14–15 ft. lbs. of torque (once set screws contact the shaft, tighten set screws one full turn). Repeat the same process for the other coupler half.

With assistance and starting on the left hand side of door, pick up the left hand torsion spring assembly and slide one end of the torsion keyed shaft through the end bearing bracket. Lay the other side of the torsion keyed shaft into the center bracket. Repeat the same process for the right hand torsion spring assembly.

NOTE: Position both torsion keyed shafts so that equal amounts of the shafts extend from each end bearing brackets.

Attaching Springs to Center Bracket

NOTE: Refer to Package Contents / Breakdown of Parts, to determine which Center Bracket(s) came with your door.
NOTE: Refer to Package Contents / Breakdown of Parts, to determine if your door came with a coupler assembly.

IMPORTANT: THE SPRING WARNING TAG(S) SUPPLIED MUST BE SECURELY ATTACHED TO THE STATIONARY SPRING CONE(S) IN PLAIN VIEW. SHOULD A REPLACEMENT SPRING WARNING TAG BE REQUIRED, CONTACT WAYNE DALTIN FOR FREE REPLACEMENTS.

NOTE: Measure the diameter of your springs. If your spring diameter is 3-3/4", the springs do not share center brackets. If your spring diameter is either 2" or 2-5/8", then two springs will share the same center bracket, unless a coupler assembly is provided.

IF YOU DON'T HAVE A COUPLER ASSEMBLY: Slide center bracket bearing into the spring. Align the stationary spring cone(s) with the holes in the center bracket. Secure the torsion spring(s) to the center bracket with (2) 3/8" - 16 x 1-1/2" hex head bolts and (2) 3/8" - 16 nuts.

IMPORTANT: NEVER USE MORE THAN ONE BEARING WHEN ATTACHING TWO SPRINGS TO ONE CENTER BRACKET.

IF YOU HAVE A COUPLER ASSEMBLY: Slide center bracket bearing into the spring. Align the stationary spring cone with the holes in the center bracket. Secure the torsion spring to the center bracket with (2) 3/8" - 16 x 1-1/2" hex head bolts and (2) 3/8" - 16 nuts. Repeat the same process for the other center bearing bracket.

At the middle of the two center bearing brackets, re-assemble the coupler assembly by loosely fastening the coupler halves together using the (3) 3/8" washers, (3) 3/8" lock washers and the (3) 3/8" - 16 hex nuts, previously removed.

NOTE: Ensure both torsion keyed shafts have equal amounts of the shafts extending from each end bearing bracket.

NOTE: If your springs have stenciling, then skip this step.

If you have torsion keyed shaft(s), insert (1) key into the slot of both the cable drum and the slot in the torsion keyed shaft, as shown.

Rotate the left hand drum and torsion shaft until counterbalance lift cable is taut. Now attach locking pliers to the torsion shaft and brace locking pliers up against jamb to keep counterbalance lift cable taut. Repeat for right hand side.

IMPORTANT: INSPECT EACH COUNTERBALANCE LIFT CABLE MAKING SURE IT IS SEATED PROPERLY ON THE CABLE DRUM AND THAT BOTH COUNTERBALANCE LIFT CABLES HAVE EQUAL TENSION.

CHECK COUNTERBALANCE LIFT CABLES FOR EQUAL TENSION:
1. Attach locking pliers to track above top roller.
2. Grasp cable at approximate mid-door height location.
3. Draw cable toward you about 1/2" to 1" and release, noting the response of the cable.
4. Repeat above steps for other cable.
5. Adjust cable tension as needed until right and left cables both respond the same.

Once the counterbalance cables are set and if applicable tighten the coupler assembly together by tightening the (3) 3/8" - 16 nylon hex nuts to secure the coupler halves together.

NOTE: If your springs have stenciling, then skip this step.

Draw a chalk line horizontally along the center of the torsion spring coil(s). As the torsion spring is wound, the chalk line will create a spiral. This spiral can be used to count and determine the number of turns that are applied on the torsion spring.

NOTE: If your springs have stenciling, then skip this step.

IF YOU DON'T HAVE A COUPLER ASSEMBLY:

NOTE: If you have torsion keyed shaft(s), insert (1) key into the slot of both the cable drum and the slot in the torsion keyed shaft, as shown.

Draw a chalk line horizontally along the center of the torsion spring coil(s). As the torsion spring is wound, the chalk line will create a spiral. This spiral can be used to count and determine the number of turns that are applied on the torsion spring.

NOTE: If you have torsion keyed shaft(s), insert (1) key into the slot of both the cable drum and the slot in the torsion keyed shaft, as shown.

Align the stationary spring cone to the center bracket with (2) 3/8" - 16 x 1-1/2" hex head bolts and (2) 3/8" - 16 nuts.

IF YOU HAVE A COUPLER ASSEMBLY:

NOTE: If you have torsion keyed shaft(s), insert (1) key into the slot of both the cable drum and the slot in the torsion keyed shaft, as shown.

Draw a chalk line horizontally along the center of the torsion spring coil(s). As the torsion spring is wound, the chalk line will create a spiral. This spiral can be used to count and determine the number of turns that are applied on the torsion spring.

NOTE: If you have torsion keyed shaft(s), insert (1) key into the slot of both the cable drum and the slot in the torsion keyed shaft, as shown.

Draw a chalk line horizontally along the center of the torsion spring coil(s). As the torsion spring is wound, the chalk line will create a spiral. This spiral can be used to count and determine the number of turns that are applied on the torsion spring.

NOTE: If you have torsion keyed shaft(s), insert (1) key into the slot of both the cable drum and the slot in the torsion keyed shaft, as shown.

Draw a chalk line horizontally along the center of the torsion spring coil(s). As the torsion spring is wound, the chalk line will create a spiral. This spiral can be used to count and determine the number of turns that are applied on the torsion spring.
**22 Securing Door for Spring Winding**

With the door in the fully closed position, place locking pliers onto both vertical tracks just above the third track roller. This is to prevent the garage door from rising while winding the springs.

**NOTE:** Check the following before attempting to wind torsion spring(s):

- a. Counterbalance lift cables are secured at bottom corner brackets.
- b. Counterbalance lift cables are routed unobstructed to cable drums.
- c. Counterbalance lift cables are correctly installed and wound onto cable lift drums.
- d. Counterbalance lift cables are taut and have equal tension on both sides.
- e. Cable lift drums are against end bearing brackets and set screws are tight.
- f. Torsion spring or springs are installed correctly.
- g. Review the label attached to the spring warning tag, to determine number of spring turns required.

**WARNING**

FAILURE TO ENSURE DOOR IS IN A CLOSED POSITION AND TO PLACE LOCKING PLIERS ONTO VERTICAL TRACK CAN ALLOW DOOR TO RISE AND CAUSE SEVERE OR FATAL INJURY.

<table>
<thead>
<tr>
<th>Winding Bars (Steel Rods)</th>
<th>Size Of Winding Bar (Inches)</th>
<th>Spring Inner Diameter Used On</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2&quot; dia. x 18&quot;</td>
<td>2&quot; and 2-5/8&quot;</td>
<td></td>
</tr>
<tr>
<td>5/8&quot; dia. x 24&quot;</td>
<td>3-3/4&quot;</td>
<td></td>
</tr>
</tbody>
</table>

**WARNING**

WINDING SPRING IS AN EXTREMELY DANGEROUS PROCEDURE AND SHOULD BE PERFORMED ONLY BY A TRAINED DOOR SYSTEM TECHNICIAN USING PROPER TOOLS AND INSTRUCTIONS.

**WARNING**

USE ONLY SPECIFIED WINDING BARS, AS STATED IN STEP SECURING DOOR FOR SPRING WINDING. DO NOT SUBSTITUTE WITH SCREWDRIVERS, PIPE, ETC. OTHER TOOLS MAY FAIL OR RELEASE FROM THE SPRING CONE AND CAUSE SEVERE OR FATAL INJURY.

**WARNING**

PRIOR TO WINDING THE SPRING, ENSURE YOU’RE WINDING IN THE PROPER DIRECTION AS SHOWN BELOW. OTHERWISE THE SPRING FITTING MAY RELEASE FROM SPRING AND RESULT IN SEVERE OR FATAL INJURY.

Position a ladder slightly to the side of the spring so that the winding cone is easily accessible, and so your body is not directly in line with the winding bars. Check the label attached to the spring warning tag for the required number of complete turns to balance your door.

**HOW TO WIND TORSION SPRINGS:**

1. Insert one winding rod snugly into winding cone, to full socket depth

2. Maintaining a tight grip on the winding rod rotate it slowly in the proper direction, as shown below.

3. If there is any slippage of the winding rod in the winding cone socket, reverse the direction of winding and return the cone to its original position. Remove the winding rod from the winding cone socket. Reset the winding rod in the socket. Start over at Step #1.

4. When the winding rod is vertical above the winding cone, insert another winding rod into the cone(s), ensuring that both rods are wound in the same direction.

5. Hold the spring with the second winding bar, and remove the first.

6. Repeat Steps #2 through #5 until the complete turns have been applied.

**IMPORTANT:** AFTER WINDING THE SPRING(S), TIGHTEN THE (2) SET SCREWS TO 14-15 FT. LBS. OF TORQUE IN THE WINDING CONE. ONCE SET SCREWS CONTACT THE SHAFT, TIGHTEN SCREWS ONE FULL TURN.

**WARNING**

TORSION SPRING(S) SHOULD BE WOUND IN THE DIRECTION END CALLED POINTS.

**Attaching Rear Back Hangs**

**IMPORTANT:** HOLD THE DOOR DOWN TO PREVENT IT FROM RISING UNEXPECTEDLY IN THE EVENT THE SPRING(S) WERE OVER-WOUND AND CAUTIONILY REMOVE LOCKING PLIERS FROM VERTICAL TRACKS.

Raise the door until the top section and half of the next section are in the horizontal track radius. Do not raise door any further since rear of horizontal tracks are not yet supported.

**WARNING**

RAISING DOOR INTO THE LOOSE HORIZONTAL TRACKS CAN RESULT IN DOOR FALLING AND CAUSE SEVERE OR FATAL INJURY.

Clamp a pair of locking pliers onto the vertical tracks just above the second track roller on one side, and just below the second track roller on the other side. This will prevent the door from raising or lowering while installing the rear back hang.

Using the chart below, select the appropriate perforated angle (may not be supplied). Fabricate and install back hangs, as shown:

**Perforated Angle Gauge Weight Limitations:**

<table>
<thead>
<tr>
<th>Perforated Angle Gauge</th>
<th>Door Balance Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>2” x 2” x 12 Gauge</td>
<td>Less Than 800 lbs.</td>
</tr>
<tr>
<td>1-1/4” x 1-1/4” x 13 Gauge</td>
<td>Less Than 305 lbs.</td>
</tr>
<tr>
<td>1-1/4” x 1-1/4” x 15 Gauge</td>
<td>Less Than 220 lbs.</td>
</tr>
<tr>
<td>1-1/4” x 1-1/4” x 16 Gauge</td>
<td>Less Than 175 lbs.</td>
</tr>
</tbody>
</table>

**NOTE:** If an opener is installed, position horizontal tracks one hole above level when securing it to the rear back hang.

**WARNING**

MAKE SURE BACK HANGS ARE BRACED SUFFICIENTLY TO RESIST ANY MOTION DURING SPRING APPLICATION AND DOOR TRAVEL. IF BACK HANGS PIVOT OR DEFLECT, ADD REINFORCEMENT UNTIL THEY REMAIN FIRM AND STATIONARY. ANY BACK HANG THAT IS BENT MUST BE REPLACED.

**WARNING**

KEEP HORIZONTAL TRACKS PARALLEL AND WITHIN 3/4” TO 7/8” FROM DOOR EDGE, OTHERWISE DOOR COULD FALL, RESULTING IN SEVERE OR FATAL INJURY.

**IMPORTANT:** DO NOT SUPPORT THE WEIGHT OF THE DOOR ON ANY PART OF THE REAR BACK-HANGS THAT CANTILEVERS 4” OR MORE BEYOND A SOUND FRAMING MEMBER.
NOTE: If rear back hangs are to be installed over drywall, use (2) 5/16" x 2" hex head lag screws and make sure lag screws engage into solid structural lumber.

**WARNING**

FAILURE TO ASSEMBLE AND ATTACH REAR BACK HANGS PROPERLY ACCORDING TO THE ABOVE INSTRUCTIONS MAY RESULT IN DOOR FALLING WHEN RAISED, CAUSING SEVERE OR FATAL INJURY.

**NOTE:** Perforated angle must be attached to sound framing members and nails should not be used.

**NOTE:** Door not shown for clarity.

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**Balancing Door**

Remove locking pliers. Lift door and check its balance. Adjustments to the required number of spring turns stated may be necessary. If door rises off floor more than 2 ft. under spring tension alone, reduce spring tension. If the door is hard to rise or drifts down on its own, add spring tension. A poorly balanced door can cause garage door operator problems.

To adjust spring tension, fully close door. Apply locking pliers to track above third track roller. Place locking pliers on torsion shaft, as shown in Step Attaching Counterbalance Lift Cables. Insert a winding rod into the winding cone. Push upward on the winding rod slightly while carefully loosening the set screws in the winding cone.

**IMPORTANT:** BE PREPARED TO SUPPORT THE FULL FORCE OF THE TORSION SPRING ONCE THE SET SCREWS ARE LOOSE.

Carefully adjust spring tension 1/4 turn. Retighten both set screws to 14-15 ft. lbs. of torque in the winding cone and repeat for the other side. Recheck door balance and re-adjust spring tension if needed.

**IMPORTANT:** DO NOT ADJUST MORE THAN 1 TURN FROM THE RECOMMENDED NUMBER OF TURNS.

If the door still does not operate easily, lower the door into the closed position, unwind spring(s) completely, and recheck the following items:

1. Is the door level?
2. Are the torsion shaft and flag angles / angle mount level and plumb?
3. Does the distance between the flag angles / angle mount equal door width plus 3-3/8" to 3-1/2"?
4. Do the counterbalance lift cables have equal tension? Adjust if necessary.
5. Rewind the spring(s).
6. Make sure door is not rubbing on jambs.

**IMPORTANT:** IF DOOR STILL DOES NOT BALANCE PROPERLY, THEN CONTACT A TRAINED DOOR SYSTEM TECHNICIAN.

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**Attaching Weather Seal**

Permanently attach the weatherstrips on both door jambs and header. The weatherstrips were temporarily attached in Preparing the Opening, in the pre-installation section of this manual.

**NOTE:** When permanently attaching the weatherstrips to the jambs, avoid pushing the weatherstrips too tightly against the face of door.
**Inside Lock**

Install the inside lock on the second section of the door. Secure the lock to the section with (4) 1/4” - 20 x 11/16” self drilling screws. Square the lock assembly with the door section, and align with the square hole in the vertical track. The inside lock should be spaced approximately 1/8” away from the section edge.

**IMPORTANT:** INSIDE LOCK(S) MUST BE REMOVED OR MADE INOPERATIVE IN THE UN-LOCKED POSITION IF AN OPERATOR IS INSTALLED ON THIS DOOR.

**Pull Down Rope**

**WARNING**

DO NOT INSTALL PULL DOWN ROPE ON DOORS WITH OPERATORS. CHILDREN MAY BECOME ENTANGLED IN THE ROPE CAUSING SEVERE OR FATAL INJURY.

Measure and mark the jamb approximately 48” to 50” (1220 to 1270 mm) from floor on the right or left side of jamb. Drill 1/8” pilot hole for no. 6 screw eye. Tie the pull down rope to the no. 6 screw eye and to the bottom corner bracket, as shown.
Cleaning Your Garage Door

IMPORTANT: DO NOT USE A PRESSURE WASHER ON YOUR GARAGE DOOR!

While factory-applied finishes on garage doors are durable, it is desirable to clean them on a routine basis. Some discoloration of the finish may occur when a door has been exposed to dirt-laden atmosphere for a period of time. Slight chalking may also occur as a result of direct exposure to sunlight.

Cleaning the door will generally restore the appearance of the finish. To maintain an aesthetically pleasing finish of the garage door, a periodic washing of the garage door is recommended.

THE FOLLOWING CLEANING SOLUTION IS RECOMMENDED:

- A mild detergent solution consisting of one cup detergent (with less than 0.5% phosphate) dissolved into five gallons of warm water will aid in the removal of most dirt.
- Do not use any window cleaning fluids, scouring compounds, gritty cloths or solvent-based cleaners of any kind.
- Never mix cleansers or detergents with bleach.

GLASS CLEANING INSTRUCTIONS

Clean with a mild detergent solution (same as above) and a soft cloth. After cleaning, rinse thoroughly.

ACRYLIC CLEANING INSTRUCTIONS

Clean acrylic glazing with nonabrasive soap or detergent and plenty of water. Use your bare hands to feel and dislodge any caked on particles. A soft, grit-free cloth, sponge or chamois may be used to wipe the surface. Do not use hard or rough cloths that will scratch the acrylic glazing. Dry glazing with a clean damp chamois.

CAUTION

Never mix cleaners or detergents with bleach.

Painting Your Garage Door

Refer to Instruction Insert “Field Painting and Finishing Fiberglass Or Steel Door Sections”.

Maintaining The Finish On Your Garage Door

If the factory finish is beginning to fade, the door may require a field applied top coat clear. Depending on environment and usage, this may be necessary after 1 to 3 years of use. Refer to Instruction Insert “Field Painting and Finishing Fiberglass Or Steel Door Sections”.

Operation And Maintenance

OPERATING YOUR GARAGE DOOR: Before you begin, read all warning labels affixed to the door and the installation instructions and owner’s manual. When correctly installed, your Wayne Dalton door will operate smoothly. Always operate your door with controlled movements. Do not slam your door or throw your door into the open position, this may cause damage to the door or its components. If your door has an electric opener, refer to the owner’s manual to disconnect the opener before performing manual door operation below.

MANUAL DOOR OPERATION: For additional information on manual garage door operations go to www.dasma.com and reference TDS 165.

WARNING

DO NOT PLACE FINGERS OR HANDS INTO SECTION JOINTS WHEN OPENING AND/OR CLOSING A DOOR. ALWAYS USE LIFT HANDLES / SUITABLE GRIPPING POINTS WHEN OPERATING THE DOOR MANUALLY.

OPENING A DOOR: Make sure the lock(s) are in the unlocked position. Lift the door by using the lift handles/ suitable gripping points only. Door should open with little resistance.

CLOSING A DOOR: From inside the garage, pull door downward using lift handles/ gripping point only. If you are unable to reach the lift handles/suitable gripping points only, use pull down rope affixed to the side of door. Door should close completely with little resistance.

USING AN ELECTRIC OPERATOR:

IMPORTANT: PULL DOWN ROPES MUST BE REMOVED AND LOCKS MUST BE REMOVED OR MADE INOPERATIVE IN THE UNLOCKED POSITION.

When connecting a drawbar (trolley type) garage door operator to this door, a drawbar operator bracket must be securely attached to the top section of the door, along with any struts provided with the door. Always use the drawbar operator bracket supplied with the door. To avoid possible damage to your door, Wayne Dalton recommends reinforcing the top section with a strut (may or may not be supplied). The installation of the drawbar operator must be according to manufacturer’s instructions and force settings must be adjusted properly. Refer to the owner’s manual supplied with your drawbar operator for complete details on installation, operation, maintenance and testing of the operator.

MAINTAINING YOUR GARAGE DOOR:

Before you begin, read all warning labels affixed to the door and the installation instructions and owner’s manual. Perform routine maintenance steps once a month, and have the door professionally inspected once a year. Review your installation Instructions and Owner’s Manual for the garage door. These instructions are available at no charge from Wayne Dalton, a division of Overhead Door Corporation, P.O. Box 67, Mt. Hope, OH., 44660, or at www.Wayne-Dalton.com. For additional information on garage door/operator maintenance go to www.dasma.com and reference TDS 151, 167 and 179.

Monthly Inspections:

1. Visual Inspection: Closely inspect jamb, header and mounting surface. Any material found not to be structurally sound must be replaced. It may be necessary to uninstall part or all of the door assembly in order to replace defective material. Refer to the supplemental instructions “Removing an Existing Door / Preparing the Opening” at www.Wayne-Dalton.com. Inspect the spring(s), counterbalance lift cables, track rollers, pulleys, rear back hangs and other door hardware for signs of worn or broken parts. Tighten any loose screws and/or bolts, except on bottom corner brackets or on the counterbalance assembly. Check exterior surface of the door sections for any minor cracks. Verify door has not shifted right or left in the opening. If you suspect problems, contact a trained door system technician.

WARNING

GARAGE DOOR SPRINGS, COUNTERBALANCE LIFT CABLES, BRACKETS, AND OTHER HARDWARE ATTACHED TO THE SPRINGS ARE UNDER EXTREME TENSION, AND IF HANDLED IMPROPERLY, CAN CAUSE SEVERE OR FATAL INJURY. ONLY A TRAINED DOOR SYSTEMS TECHNICIAN SHOULD ADJUST THEM, BY CAREFULLY FOLLOWING THE MANUFACTURER’S INSTRUCTIONS.

WARNING

NEVER REMOVE, ADJUST, OR LOOSEN THE BOLTS, SCREWS AND/OR LAG SCREWS ON THE COUNTERBALANCE (END BEARING BRACKETS, DRUMS OR SPRING SYSTEM) OR BOTTOM CORNER BRACKETS OF THE DOOR. THESE BRACKETS ARE CONNECTED TO THE SPRING(S) AND ARE UNDER EXTREME TENSION. TO AVOID POSSIBLE SEVERE OR FATAL INJURY, HAVE ANY SUCH WORK PERFORMED BY A TRAINED DOOR SYSTEMS TECHNICIAN USING PROPER TOOLS AND INSTRUCTIONS.

TORQUEMASTER PLUS SPRINGS: Pawl knob(s) (located on the TorqueMaster® end brackets above the door) should be engaged to prevent the door from rapidly descending in case of spring failure or forceful manual operation.

EXTENSION SPRINGS: A restraining cable or other device should be installed on the extension spring (located above the horizontal tracks) to help contain the spring if it breaks.

2. Door Balance: Periodically test the balance of your door. If you have a garage door drawbar operator, use the release mechanism so you can operate the door by hand when doing this test. Start with the door in the fully closed position. Using handles or suitable gripping points, lift the door to check its balance. Adjust TorqueMaster® or Extension spring(s), if door lifts by itself (hard to pull down) or if door is difficult to lift (easy to pull down). DO NOT attempt to repair or adjust Torsion Springs yourself. To adjust TorqueMaster® or Extension spring(s), refer to your installation instructions and owner’s manual. If in question about any of the procedures, do not perform the work. Instead, have it adjusted by a trained door systems technician.

3. Lubrication: The door should open and close smoothly. Ensure the door track rollers are operating freely. If the track rollers do not rotate freely, clean the door tracks, removing dirt and any foreign substances. Clean and lubricate (use a non-silicon based lubricant) graduated end hinges, center hinges, steel track rollers, bearings and torsion springs (torsion spring coil surfaces). DO NOT lubricate plastic idler bearings, nylon track rollers, door track. DO NOT oil a cylinder lock, if actuation is difficult use a graphite dust to lubricate.

CHECK FOR PRESENCE OF SAFETY LABELS:
TorqueMaster® Plus tag(s) (one per spring)

Number of Installed Spring Turns

(7' - 9") 17 1/2
(6' - 8") 15 1/2
(6' - 6") 15
(6' - 3") 14 1/2
(8' - 0") 18
(7' - 6") 17
(7' - 0") 16
(6' - 9") 15 1/2
(6' - 5") 15
(6' - 0") 14

Door Height Spring Turns

Spring Turns

DO NOT REMOVE, COVER OR PAINT OVER

serious injury to fingers and/or hands, if

gripping points on this door can result in

is motor operated.

installation instructions, even if the door

on this door, located as spelled out in the

Lift handles/gripping points are required

when the door is operated manually.

placed in the opening between sections,

Failure to install and use these lift handles/

is motor operated.

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Limited Warranty
Models 8000, 8100, 8200

Wayne Dalton, a division of Overhead Door Corporation ("Seller") warrants to the original purchaser of the Models 8000, 8100, 8200 ("Product"), subject to all of the terms and conditions hereof, that the Product and all components thereof will be free from defects in materials and workmanship for the following period(s) of time, measured from the date of installation:

**TEN (10) YEARS** from the date of installation against:
- The Product becoming inoperable due to rust-through of the steel skin from the core of the Product section, due to cracking, splitting, or other deterioration of the steel skin, or due to structural failure caused by separation or degradation of the foam insulation.
- Peeling of the original paint as a result of a defect in the original paint or in the application of the original paint coating.

**TEN (10) YEARS** on Product hardware and tracks (except springs).

**ONE (1) YEAR** on all other component and parts.

Seller’s obligation under this warranty is specifically limited to repairing or replacing, at its option, any part which is determined by Seller to be defective during the applicable warranty period. Any labor charges are excluded and will be the responsibility of the purchaser.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. This warranty is made to the original purchaser of the Product only, and is not transferable or assignable. This warranty applies only to Product installed in a residential or other non-commercial application. It does not cover any Product installed in commercial or industrial building applications. This warranty does not apply to any unauthorized alteration or repair of the Product, or to any Product or component which has been damaged or deteriorated due to misuse, neglect, accident, failure to provide necessary maintenance, normal wear and tear, acts of God, or any other cause beyond the reasonable control of Seller or as a result of having been exposed to toxic or abrasive environments, including blowing sand, salt water, salt spray and toxic chemicals and fumes.

ALL EXPRESS AND IMPLIED WARRANTIES FOR THE PRODUCT, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN TIME TO THE APPLICABLE WARRANTY PERIOD REFLECTED ABOVE. NO WARRANTIES, WHETHER EXPRESS OR IMPLIED, WILL APPLY AFTER THE LIMITED WARRANTY PERIOD HAS EXPIRED. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

IN NO EVENT SHALL SELLER BE RESPONSIBLE FOR, OR LIABLE TO ANYONE FOR, SPECIAL, INDIRECT, COLLATERAL, PUNITIVE, INCIDENTAL OR CONSEQUENTIAL DAMAGES, even if Seller has been advised of the possibility of such damages. Such excluded damages include, but are not limited to, loss of use, cost of any substitute product, or other similar indirect financial loss. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

Claims under this warranty must be made promptly after discovery, within the applicable warranty period, and in writing to the authorized distributor or installer whose name and address appear below. The purchaser must allow Seller a reasonable opportunity to inspect any Product claimed to be defective prior to removal or any alteration of its condition. Proof of the purchase and/or installation date, and identification as the original purchaser, may be required. There are no established informal dispute resolution procedures of the type described in the Magnuson-Moss Warranty Act.

- **SELLER:**

- **SELLER’S ADDRESS:**


Thank you for your purchase.

PLEASE DO NOT RETURN THIS PRODUCT TO THE STORE

If you need assistance, please call 1-866-569-3799 (press Option 1) and follow the prompts to contact a customer service representative. They will be happy to handle any questions that you may have.

After installation is complete, leave this Installation Instructions And Owner’s Manual with the homeowner, or fasten it near garage door for easy reference.